

Appl. No. 10/028,434
Amdt. Dated April 26, 2005
Reply to Office action of January 26, 2005
Attorney Docket No. P15134-US1
EUS/J/P/05-3097

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 - 6. (Canceled)

7. (Currently Amended) A method of determining the position of a wireless mobile terminal in a wireless network, the method comprising:

determining a first timing advance value between the mobile terminal and a cell in a first base station based on packet-switched communications therebetween;

sending a command to said mobile terminal instructing said mobile terminal to:

synchronize to a second cell base station and transmit one or more access bursts thereto; and,

thereafter, without waiting for an acknowledgement of said access bursts to said second cell base station, automatically synchronize to a third cell base station and transmit one or more access bursts thereto;

determining a second timing advance value between said mobile terminal and said second cell base station;

determining a third timing advance value between said mobile terminal and said third cell; and

responsive to determining the timing advance values, the first base station sending the three timing advance values to a Serving Mobile Location Center (SMLC), wherein the SMLC utilizes the three timing advance values and known locations of the first, second and third cells for

determining the location of said mobile terminal ~~based on said first, second, and third timing advances.~~

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8. (Original) The method of claim 7 wherein sending said command to said mobile terminal comprises sending a message containing an identifier to be included in said access bursts.

9. (Currently Amended) The method of claim 8 wherein said message further includes an indication of the number of access bursts the mobile terminal should transmit to said second cell base station.

10. (Currently Amended) The method of claim 8 wherein said message further includes one or more frequencies and an indication of the base station identifier to be used for synchronization to said second base station and a temporary identifier used by the mobile terminal when sending said access bursts

11. (Currently Amended) The method of claim 7 wherein said command instructs the mobile terminal to synchronize with each of the first, second and third cell successively and further instructs said mobile terminal to automatically return to said first base station after transmitting said one or more access bursts to said third base station.

12. (Original) The method of claim 7 further comprising said mobile terminal automatically suspending, in response to receiving said command, packet data operation until after said transmitting said one or more access bursts to said third base station.

13 -20. (Canceled)

21. (New) An arrangement in a first base station for determining the position of a wireless mobile terminal in a wireless network, comprising:

means for determining a first timing advance value between the mobile terminal and a cell in the first base station;

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means for sending a command from the first base station instructing said mobile terminal to:

synchronize to a second cell and transmit one or more access bursts thereto; and,

thereafter, without waiting for an acknowledgement of said access bursts to said second cell, automatically synchronizing to a third cell and transmitting one or more access bursts thereto;

means for:

determining a second timing advance value between said mobile terminal and said second cell;

determining a third timing advance value between said mobile terminal and said third cell; and

means in the first base station for sending the three timing advance values to a Serving Mobile Location Center (SMLC), wherein the SMLC utilizes the three timing advance values and known locations of the first, second and third cells for determining the location of said mobile terminal.

22. (New) The arrangement of claim 21, wherein the mobile terminal further comprises

means for including a message containing an identifier in said access bursts.

23. (New) The arrangement of claim 22 wherein said message includes an indication of the number of access bursts the mobile terminal should transmit to said second cell.

24. (New) The arrangement of claim 22 wherein said message further includes one or more frequencies and base station identifier code of the base station for synchronization.

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25. (New) The arrangement of claim 21 wherein said command instructs the mobile terminal to synchronize with each of the first, second and third cells successively and to automatically return to said first base station after transmitting said one or more access bursts to said third cell.

26. (New) The arrangement of claim 21, wherein said mobile terminal further comprises

means for automatically suspending, in response to receiving said command, packet data operation until after transmitting said one or more access bursts to said third cell.